



Fulton County, GA

Department of Purchasing & Contract Compliance

Felicia Strong-Whitaker, Interim Director

May 8, 2013

Re: 13ITB03281K-DJ, Fulton County Jail – Security Locks Retrofit

Dear Bidders:

Attached is one (1) copy of **REVISED** Addendum 6, hereby made a part of the above referenced Invitation To Bid (ITB), **#13ITB03281K-DJ, Fulton County Jail – Security Locks Retrofit.**

Except as provided herein, all terms and conditions in the ITB referenced above remain unchanged, in full force and effect.

Sincerely,

Donna Jenkins

Donna Jenkins
Chief Assistant Purchasing Agent

Winner 2000 - 2009 Achievement of Excellence in
Procurement Award • National Purchasing Institute



130 Peachtree Street, S.W., Suite 1168 • Atlanta, GA 30303 • (404) 612-5800

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ACKNOWLEDGEMENT OF **REVISED** ADDENDUM NO. 6

The undersigned Bidder acknowledges receipt of this addendum by returning one (1) copy of this form with the Bid package to the Fulton County Purchasing Department, Public Safety Building, 130 Peachtree Street, Suite 168, Atlanta, Georgia 30303 by the Bid due date and time **Monday, May 13 , 2013, 11:00 A.M.**

This is to acknowledge receipt of **REVISED** Addendum No. 6, _____ day of _____, 2013.

_____ Legal Name of Bidder

_____ Signature of Authorized Representative

_____ Title

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This Addendum forms a part of the contract documents and **modifies** the original ITB documents as noted below:

The Bid Form as been revised to include a third alternate:

ALTERNATE #3

Cost associated with the installation of a new side door skirt on the sliding door as illustrated on drawing DE 3.0 (note 2) and referenced in bid document section 08-71-63.

PRODUCT	PER UNIT COST	QUANTITY	TOTAL COST
Side Door Skirt		186	

QUESTION 1: Addendum #5 response to Question #13 states that "yes connection of all NEW locking control systems equipment under this scope to the existing UPS power where it is available is acceptable (ONLY where the existing UPS units' spare capacities can provide 4-hours run-time to support the existing locking control systems equipment as well as the NEW locking control systems equipment required under this scope). Do the existing UPS units provide 4-hours run-time to the existing locking control systems equipment?

RESPONSE: Yes, the existing UPS units do provide 4 hours of run-time. However, they are a manually activated standby power source. The existing UPS units must be retrofitted with an emergency relay that enables the units to automatically provide power in the event of main power loss.

QUESTION 2: The existing sliders have a cover release system for each slider housing cover that is operated at the gang release cabinet. This system is not detailed in the specification. Please confirm this system is to be retrofitted and re-commissioned in conjunction with the emergency gang release as designed by the new slider device manufacturer. As a cost savings alternative to renovating/retrofitting this cover release system the existing covers could be modified removing the cover release system entirely and replacing with new security screws and attachment points for the existing covers. Covers would be opened by removing the security. Please note that the existing housings have the same system in place between the housing now.

RESPONSE: As an acceptable alternative, the existing cover release system can be removed entirely and replaced with security screws and attachment points for the existing corners.

QUESTION 3: Drawing DE3.0 detail number 5 shows the cell slider elevation. The lock column is shown incorrectly. Please confirm that the LED light will be installed at the existing release column not on the lock column.

RESPONSE: As long as the LED light is readily visible, either option is viable. The County only requires that LED installation be consistent throughout.

QUESTION 4: Note #1 for drawing DE3.0 detail number 5 calls for the new door skit to be welded in place. The specs call for security screws to attach the new door skirts. Please confirm which is correct.

RESPONSE: Adjustable security screws are required to position the new door skirts. Once positioning is approved by Owner, the new skirts are to be permanently welded in place.

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QUESTION 5: Note #2 for drawing DE3.0 detail number 5 calls for a new side skirt to be installed on the door and welded in place. The existing doors have an angle side skirt already and the owner was unaware of the door side skirt needing to be added. Please confirm if a new side skirt is to be installed either welded in place or fastened with security screws. Note that the existing door skirt would need to be removed if a new side skirt is required.

RESPONSE: New skirts can be fastened with security screws. Please see final addendum referencing a modification to the bid form for this specification.

QUESTION 6: Question #3, addendum #2 refers to a bid form which would require the Prime bidder to list in writing the company name from the approved specification listing for the DEC, SEC, SMLP device Manufacturer and Slider Operator Device manufacturer. Please provide this form in next addendum so it can be included with the bid.

RESPONSE: Prime bidders can create and format this form as they see fit. Information contained therein must satisfy the requirements outlined in the bid specifications.

QUESTION 7: Please reference question and answer #6, addendum #2. A significant cost reduction in staffing and coordination can be provided to the county if the 6 zones turned over can be on one floor at a time. Please advise if this is acceptable.

RESPONSE: For the purposes of the bid response, please factor in having only three (3) zones available per floor. At one time, the installer will have three (3) zones available on a swing door floor and three (3) zones on a sliding door floor. The flexibility of the Sheriff's Office to relocate inmates may change during the course of the project which may result in having more zones available.

QUESTION 8: The specification section 087163 Section 2.1, L.1.b and L.2.f call for removal and re-installation of existing door bumpers. There were no existing door bumpers in the swing door zone visited during the walkthrough. Please advise how many door bumpers are currently installed that need to be removed and re-installed and how many new door bumpers are to be provided and installed.

RESPONSE: Floors 1 North, 2 North & South, 3 North & South do **NOT** have pre-existing bumpers. New bumpers will have to be provided and installed for the referenced floors. Refer to previous addendum for cell count of the aforementioned floors. All other swing door floors/areas have pre-existing bumpers that must be removed and reinstalled.

QUESTION 9: Please provide a new bid breakdown form which shows the correct quantity of devices and has enough spaces to list all addenda acknowledgements.

RESPONSE: Bid form included in the bid specifications has the correct quantity of devices. With the exception of one addition to the current bid form, all addenda acknowledgements referenced specifications for work that should be included in pricing for base bid and the listed alternates.

QUESTION 10: The existing DPS at the swing door zone that was shown during the walkthrough was surface mounted type not DPS hinge as specified in section 087163 2.1 L.1.3. If this is to be removed please confirm that 12 gauge plate covers fastened to doors with flush security screws is an acceptable solution to cover existing door and frame prep or if the DPS can be abandoned in place.

RESPONSE: Surface mounted DPS units may be abandoned in place.

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QUESTION 11: Please differentiate which floors have existing surface mounted DPS and which have hinge type DPS devices.

RESPONSE: Floors 4 North & South, 5 North & South and zones 300 & 400 on 7 North have the hinge type DPS devices. All other floors have surface mounted DPS devices.

QUESTION 12: Please advise if the existing hinge type DPS devices can be abandoned in place or if they are to be replaced with another non-DPS Portland adjustable hinge.

RESPONSE: The existing hinge type DPS devices can be abandoned in place.

QUESTION 13: Please advise which floors and doors have existing surface mounted Portland adjustable hinges and which floors have butt hinges.

RESPONSE:

Floor	Hinge Type
1 North & South	Butt
2 North & South	Butt
3 North & South	Butt
4 North & South	Portland
5 North & South	Portland
6 North & South	Butt
7 North Zones 300 & 400	Portland

QUESTION 14: Section 087163 part 2.1 Hinges - Paragraph A states that the institutional hinges are to be furnished and installed where necessary. Please confirm this cost, if required, will be allocated from owner contingency or provide a quantity required for bid.

RESPONSE: The bid form included in the specifications has a listed quantity. "230"

QUESTION 15: At all locations that the surface mounted adjustable hinges are to be provided please confirm that frame and door hinge filler plates are to be provided attached with flush security screws.

RESPONSE: Yes, frame and door hinge filler plates are to be provided and attached with flush security screws.

QUESTION 16: Please advise if 220V power is available for temporary power for welders. If so please advise location for each housing floor.

RESPONSE: 220V power will be made readily available by on-site maintenance staff prior to commencement of project.

QUESTION 17: Please confirm the existing exterior strike protection plate is to be removed and that interior/cell side frame mounted strike protection plates are to remain.

RESPONSE: Yes, remove the existing exterior strike protection plates and leave the interior/cell side strike protection plates in place.

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QUESTION 18: Section 280500 1.2B states the following: "The installation of all security equipment and coordination of the raceways and electrical power for the security systems shall be the full responsibility of the Division 28 contractor for this project. All equipment specified in Division 28 series sections shall be powered by emergency circuits provided by Division 28. Where required the new power circuitry for the security equipment specified within this division of work shall where possible be connected to existing UPS power systems, else furnish and install additional UPS power." Section 284020 1.2A14 states: "All Locking Control Systems equipment and (TCS's) shall have UPS battery back-up via new UPS units as part of the work scope of this project." If bidders are to provide new UPS battery backup for all locking control systems equipment, provide sizes and locations for them. If not, please indicate the size and location of all existing emergency circuits and existing UPS power supplies that are used for Division 28 equipment.

RESPONSE: The existing locking control systems are currently fully powered via existing UPS battery backup power. The Bidder is only responsible for providing new UPS battery backup power (4-hours runtime) for the new portions of the locking control systems equipment required by this project. The bidder is not responsible for providing new UPS battery backup sized for both the new additions and existing locking control systems (since the existing locking control systems are already on existing UPS power). If the existing UPS systems has adequate spare capacity to support the existing and the new portions of the locking control systems it is acceptable for the bidder to utilize the full capacity of the existing UPS systems (Note: the spare capacity of the existing UPS units is not none and would have to field verified by the awarded bidder, else the awarded bidder should calculate the power consumption of new added equipment they will be providing and appropriately size and provide new UPS battery backup power (4-hours runtime) for the new portions of the locking control systems).

QUESTION 19: Section 280500 1.2Da states the following: "The Division 28 Contractor will be fully responsible for field researching the existing security equipment cabinet layouts, existing conduit and cabling routes, field device mounting surfaces and locations, control room and (SER)-security equipment room spaces and layouts, etc. Results of the field research shall be used to configure the new security system layouts in accordance with the Contract Documents." During the pre-bid meeting, only one equipment room was available for inspection. Based on that equipment room, there are multiple NEC code violations, including several violations of the requirements listed in 280510 Section 2.4. Any time modifications are made to existing equipment, it is required that the existing equipment be made NEC compliant. Is this requirement waived for this project?

RESPONSE: No specific requests were made by the bidders to see ALL security equipment rooms during the pre-bid meeting. The existing locking control systems equipment installation is already approved by the LAHJ (local authority having jurisdiction). Modifications made to the existing equipment should be performed in like fashion as the existing equipment.

QUESTION 20: Section 280500 1.2Db states the following: "The new work shall include, but not be limited to, the provision and installation of DIN rail mounted electromechanical relays, DIN rail mounted fuse terminal blocks and wire terminal blocks, +24VDC power supplies, Fiber optic cables, fiber optic patch panels, Ethernet data switches, 3ea (TCS)-touchscreen computer stations, 1ea Server/Data logging Computer Station, Ethernet Comm. modules, (PLC) Ethernet modules, Software and programming, consoles/cabinetry, UPS's, and control, data, and signal wiring into the new and existing portions of the security locking control systems. Section 280500 1.2De states the following: "Provide all

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new wiring connections at the new door lock hardware and existing (SEC) locations as shown on the contract drawings...The Contractor should determine the appropriate location within each (SEC) to install the new DIN rail mounted components and other security system equipment required to retrofit the existing (PLC)-based locking control systems." Existing equipment room layouts are not shown on the contract drawings. Please provide existing equipment room layouts that will meet NEC code and include the location of the new relays, fuses terminal blocks and power supplies that are required for this project. Based on the equipment room that was available during the pre-bid meeting, there isn't sufficient room to put them in the existing SEC cabinets.

RESPONSE: The existing locking control systems equipment installation and equipment room layouts are already approved by the LAHJ. The locations of the existing equipment rooms are shown in the contract drawings. The exact interior layouts of the existing security equipment cabinets are not shown in the contract drawings and should have been researched and determined by the bidder during the pre-bid walk-thru. Bidders were permitted to take photos of the interior layouts of the existing equipment cabinet, take measurements of the equipment cabinets (inside and outside) and the equipment rooms, etc. The existing cabinets have space to accommodate the DIN rail mounted electromechanical relays, DIN rail mounted fuse terminal blocks and wire terminal blocks, +24VDC power supplies required by the contract documents. The awarded bidder may re-arrange the existing locking control equipment to accommodate the existing equipment and new equipment as well and should price there bid accordingly.

QUESTION 21: Section 280500 1.2Dd states the following: "The new (PLC) equipment shall interface with the existing (PLC) equipment within the security equipment rooms to provide monitoring and controlling of all new and existing door hardware devices, inmate call-ins, chase mounted smoke detector alarm status, Duress station alarm status, TV on/off, water shut on/off, Secures Mode, and Group Unlock, from the existing Locking Control panels and the new (TCS's)." Please provide quantities and locations for the chase mounted smoke detectors, duress stations, TV on/off, water shut on/off. Please provide information on how these devices are integrated into the existing system.

RESPONSE: Quantities of the chase mounted smoke detectors, duress stations, TV on/off, water shut on/off were provided in a previous RFI. The chase mounted smoke detectors and duress stations have normally-open dry-contact closures into the PLC inputs. The TV on/off and water on/off have PLC outputs that energize electromechanical relays which make and break the 120VAC circuits to the power receptacles for the TV's, and switch low-voltage power to the water solenoid valves. (Note: The chase mounted smoke detectors, duress stations, TV on/off, water shut on/off functions are already programmed into the existing PLC-based locking control systems and operate from the existing locking control graphic panels. These functions shall be retained functional and operational as a result of this project).

QUESTION 22: Section 280500 1.2Df states the following: "The Contractor shall replace the existing fiber optic communication loop currently routed between the existing (PLC) locations and furnish and install new CAT5e Ethernets (LAN)-local area network (provide and install fiber optic cables where distances between termination locations exceed 300-feet) between all (PLC) locations, (TCS) locations, and (SDLCS) location..." Section 280510 1.1B states the following: "The Contractor shall furnish and install CAT5e cables in EMT conduit from each PLC rack location to the new Central headend security system equipment. Where possible the Contractor shall remove the existing fiber optic cable currently routed between the existing PLC rack locations to install the new CAT5e cables." For bidding purposes,

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should we assume that all new CAT5e cables and new fiber optic cables will require new EMT conduit, or should we assume the existing conduit runs are in working condition and sized properly? Is any information available detailing how the existing conduits are run so that we can better determine whether fiber optic cable is required?

RESPONSE: The bidder should use their own discretion whether to bid all new EMT conduits for the new CAT5e cables and new fiber optic cables installations. It is not known the "exact" working condition of the existing conduits containing the existing fiber optic cables currently routed between the existing PLC and TCS locations. It is acceptable for the awarded bidder to reuse any portion of the existing raceways for the installation of the new CAT5e cables and new fiber optic cables. The existing fiber optic cabling routed up through the North Tower housing unit PLC locations and routed up through the South Tower housing unit PLC locations is less than 300 feet from one housing unit PLC location to the next housing unit PLC location. The distance between Master Control room and its associated security equipment room is less than 300-feet. The distance between the Master Control Room and the Secure Data room is less than 300-feet.

QUESTION 23: Section 280510 1.1A states the following: "The existing Programmable Logic Controller is connected to existing Graphic Locking Control Panels and shall remain operational throughout and after completion of this project." Addendum #2 Response to question 6b states the following: "The intent is for the completed work to be inspected and accepted on a daily basis. Inmates will be moved into completed areas after contractor work hours." Some down time will be required while the system is being modified. How much down time will be allowed? Is it the intent that all of the modifications to the Security Electronics Equipment be done while it is powered up?

RESPONSE: Yes, it is intended that some down time will be required while the system is being modified. No, it is not the intent that all modifications to the Security Electronics equipment be done while it is powered up. The contractor is responsible for presenting a work phasing schedule to the Owner for reviewing and completed work will be inspected and accepted on a daily basis. Inmates will be moved into "completed areas" after the contractor work hours. At the discretion of the Owner, inmates may or may not be moved into "non-completed areas" after the contractor work hours.

QUESTION 24: Is the intent of Addendum #2 response to question 6a that contractors will be able to work on one entire floor, or will the contractor work zones be on different floors?

RESPONSE: Contractor work zones will be on different floors at some times and on the same floors at others.

QUESTION 25: Specification 280510 1.2B states the following: "The existing PLC CPU's shall be reprogrammed to provide the necessary logic and timing functions, memory, software variables, and communication transmissions required to meet the functions described in the specifications." Section 280510 2.3V States: "The logic control system installed I/O shall be no greater than 80% of the controller's capacity. 2.3W: The logic control system shall be supplied with 20% spare memory capacity available after completion of system software required by the contract documents for future system expansion." Are bidders to assume that there is sufficient memory capacity in the existing PLC CPUs to add the specified programming, I/O and spare memory capacity?

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RESPONSE: The 20% spare memory capacity requirement is NOT required after completion of system software installation required by the contract documents for future system expansion. Yes, the contractor should anticipate that there is sufficient memory capacity in the existing PLC CPU's to add the specified programming. No additional I/O points/modules should be required since the additional electrical-mechanical relays are switching low-voltage signals (i.e., door position switches, and inmate call-ins into the same existing PLC input module point locations that already exist).

QUESTION 26: Specification Section 280510 2.2B states the following: "The existing logic control system shall be redesigned so that each PLC CPU controller location operates totally independent of one another. Failure or loss of any controller shall not hamper the operation of any other controller." Are bidders to assume that the existing system is programmed so that the failure or loss of any controller shall not hamper the operation of any other controller?

RESPONSE: Yes, the existing PLC system is programmed so that the failure or loss of any PLC CPU controller location does not hamper the operation of any of the other PLC CPU controller locations.

QUESTION 27: Specification 284020 1.2A8 states the following: "Where possible reuse the existing field wiring and add as needed add any new wiring and conduits to provide fully functional and operations PLC-based locking control systems." Are bidders to assume that the existing wiring and conduits are sufficient and in working order to complete this project?

RESPONSE: Yes, the bidder should anticipate that the existing field wiring and conduits between the security equipment cabinets and the existing field devices are currently sufficient and in working order to complete this project. Modifications to the existing field wiring is shown in the contract documents.